Gaines et al.

3,664,854

5/1972

3,775,143 11/1973

[45] Aug. 30, 1977

[54]	CEMENTITIOUS COMPOSITIONS HAVING FAST-SETTING PROPERTIES AND INHIBITED SHRINKAGE				
[75]	Inventors:	Robert W. Gaines, Darien; Dennison F. Fiala, Ridgefield; Henry Nash Babcock, Old Greenwich, all of Conn.			
[73]	Assignee:	U.S. Grout Corporation, Old Greenwich, Conn.			
[21]	Appl. No.:	530,363			
[22]	Filed:	Dec. 6, 1974			
[51] [52]	Int. Cl. ² U.S. Cl				
[58]	Field of Sea	arch 106/104, 89, 109, 110			
[56]		References Cited			
U.S. PATENT DOCUMENTS					
3,6	00,203 8/19	71 Aldera 106/104			

Kokuta 106/104

Mikhailov et al. 106/104

3 794 504	2/1974	Babcock	106/104
3.861.929	1/1975	Deets et al.	106/104

[11]

Primary Examiner—J. Poer Attorney, Agent, or Firm—Pennie & Edmonds

[57] ABSTRACT

A cementitious composition which when mixed with water is capable of setting rapidly into a hard mass of high compressive strength without substantial shrinkage during setting and early hardening, which exhibits reduced long-term shrinkage, and which possesses a high degree of impermeability to liquid and vapor, is composed of a particulate mixture of portland cement, a calcined gypsum, and high alumina cement. Alternatively, such a cementitious composition can be composed of a particulate mixture of a high alumina cement and pressure calcined gypsum. Additional components such as surface active agents, gas generating or releasing agents and aggregate can be employed, if desired, for the selective improvement of specific properties.

5 Claims, No Drawings